

Anshul Kamath

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EDUCATION

Harvey Mudd College, Claremont, CA

Expected May 2023

B.S. in Computer Science-Math (GPA 3.828)

VEX Scholarship Recipient, Dean's List (SP20, FA20, SP21, FA21, SP22)

Relevant Coursework: Data Structures/Program Development, Discrete Mathematics, Linear Algebra, Probability and Statistics, Scientific Computing, Digital Design & Computer Architecture, Algorithms, Operations Research, Computer Systems, Programming Languages, Advanced Linear Algebra

SKILLS

Languages: C/C++, Python, JavaScript (NodeJS, Typescript), Java, Unix, Julia, R, Matlab, AMPL

Databases: PostgreSQL, AWS DynamoDB, MongoDB, Google Firestore, SQLite

Libraries/Frameworks: Express, React-Native, NumPy, Pandas, Google Cloud Platform, Amazon Web Services

RELEVANT EXPERIENCE

Amazon, Seattle

May 2022 - Present

Software Development Engineer Intern

- Designed and developed a web dashboard for the Amazon Smart Air Quality Monitor using React/Redux.
- Architected and implemented a backend using Amazon Web Services (AWS) Lambda, API Gateway, CloudWatch, and CloudFormation to serve website mock data.
- Delivered an end-to-end product hosted on CloudFront via AWS S3 and authenticated with Amazon

AMISTAD Lab, Claremont

May 2021 - Present

Research Student

- Organized meetings and set deadlines for a team of 3 students studying genetic algorithms and their application in algorithmic search.
- Correlated the coherence and function of artifacts generated by genetic algorithms.
- Collected, analyzed, and visualized over 400GB of data using NumPy, Pandas, Matplotlib, and SQLite.
- First author on 2 publications presented at the International Conference on Agents and AI 2021.

Prosperly, Remote

Apr 2021 - Aug 2021

Backend Intern

- Designed and optimized the schema for REST interfaces and databases (relational and non-relational).
- Created multiple Express microservices to facilitate business logic for an application in a RESTful manner.
- Developed several AWS DynamoDB, RDS libraries to support all mobile app backend services.
- Standardized a testing framework for integration and unit testing using Postman and Jest.

Lulu, Remote

Dec 2020 - Mar 2021

Backend Intern

- Spearheaded backend development to connect Lulu App to its backend services.
- Improved over 30 HTTP routes by organizing and structuring them into a REST-compliant Express server.
- Optimized the performance of Express routes by 500% by profiling and analyzing structural bottlenecks.
- Reduced the failure rate of the routes from 20 failures per day to 0 by creating standard protocols.

Swollio

June 2020 - Sept 2020

Co-creator

- Co-created and built an app to connect coaches to their athletes and monitor progress on Swollio.
- Established the design architectures for both the relational database and RESTful interface.
- Created React-Native front end with an Express/PostgreSQL backend to allow users to interact with the app.
- Deployed an app using Google Cloud Services and published it to Apple's App Store.

LEADERSHIP EXPERIENCE

Harvey Mudd College, Claremont

Jan 2021 - Present

Teaching Assistant

- Grader/tutor for CS70: Data Structures and Program Development at Harvey Mudd College.
- Hosted weekly tutoring sessions to explain concepts, debug programs, and help with testing